

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-03-S001	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP 03/09964	International filing date (day/month/year) 05.08.2003	Priority date (day/month/year) 30.09.2002
International Patent Classification (IPC) or national classification and IPC Int.Cl. F16J15/16, F27B7/24		
Applicant SAKAKIBARA KOUICHI		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 05.08.2003	Date of completion of this report 26.04.2004	
Name and mailing address of the IPEA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer T. toh Telephone No. +81-3-3581-1101 Ext.	3W 8714

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:
SAKAKIBARA KOUICHI

**1-103-1 SUGAMINAMI HOTSU-CHO
HASHIMA-SHI GIFU-KEN
501-6335 JAPAN**

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing
(day/month/year)

16.5.2004

Applicant's or agent's file reference

PCT-03-S001

IMPORTANT NOTIFICATION

International application No.

PCT/JP 03/09964

International filing date (day/month/year)

05.08.2003

Priority date (day/month/year)

30.09.2002

Applicant

SAKAKIBARA KOUICHI

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/JP

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

Commissioner of the Patent Office

Telephone No. +81-3-3581-1101 Ext.

3W

8714

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	<u>2 - 12</u>	YES
	Claims	<u>1</u>	NO
Inventive step (IS)	Claims		YES
	Claims	<u>1 - 12</u>	NO
Industrial applicability (IA)	Claims	<u>1 - 12</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)**1. Cited documents**

D1:JP 62-195094 U

D2:JP 5-45329 U

D3:JP 2000-291806 A

D4:JP 9-79756 A

D5:JP 63-175350 U

D6:JP 4-41153 U

D7:JP 2000-337522 A

D8:JP 37-10618 Y

D9:JP 10-220588 A

2. Novelty

D1 describes the L letter-shaped seals, overlapping to each other, and connected in the cylinder circumference direction. The L letter-shaped seals can slide into the fixed body, and receive the press power in the radius direction by the spring.

The content of Claim 1 is not therefore novel.

3. Inventive step

D2 describes the seal, attached a seal material to a groove. The groove is made on the contact side.

D1 and D2 belong to the common technological field that seal of scratch move Side. Therefore it is obvious for a person skilled in the art to use, in the seal of D1, the fixed structure of the seal material by groove, is already known from D2.

The content of Claim 2 and 8 is not therefore inventive.

D3 describes the seal, fastens a cylinder by the spring arranged in the circumference direction of the seal ring.

D4 describes the seals, connected in the cylinder circumference direction. The seal of the bottom side is kept in the strain condition by a weight.

It is obvious for a person skilled in the art to use, in the seal of D1, the structure giving seals the press power, is already known from D3, D4.

The content of Claim 3 and 10 is not therefore inventive.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

D5 and D6 describes the seals, overlapping to each other, the side of radius direction and the side of circumference direction crossing, and the side of circumference direction touching each other.

It is obvious for a person skilled in the art to use, in the seal of D1, the overlapping structure, is already known from D5 or D6.

The content of Claim 4 is not therefore inventive.

In the pile part of the seals, to make the seals male part or female part, is the desing matter, a person skilled in the art decides properly.

It is obvious for a person skilled in the art to decide, in the seal of D1, the male part of the seals, corresponding to the needs.

The content of Claim 5 is not therefore inventive

It need not to make a fixed hole for all the seals, in case they are connected as described in D3. And the number of fixed holes of a seal is the design matter, a person skilled in the art decides properly.

It is obvious for a person skilled in the art to decide, in the seal of D1, the number of fixed holes, corresponding to the needs.

The content of Claim 6 and 7 is not therefore inventive.

The device, pushes the seal member toward the cylindrical radius direction center side, is common knowledge so far (See D7 or D8).

It is obvious for a person skilled in the art to use, in the seal of D1, the device, pushes the seal member toward the cylindrical radius direction center side.

The content of Claim 9 is not therefore inventive.

Oil cap or grease nipple, as a oil supplier to the oil passage, is common knowledge so far.

It is obvious for a person skilled in the art to use, in the seal of D1, the oil supplier to the oil passage.

The content of Claim 11 is not therefore inventive.

D9 describes the seal ring, having oil grooves on the contact side.

It is obvious for a person skilled in the art to use, in the seal of D1, the structure of oil grooves on the contact side, is already known from D9.

The content of Claim 12 is not therefore inventive.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/09964

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description: _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims: _____, as originally filed
Nos. _____, as amended (together with any statement) under Article 19
Nos. _____, filed with the demand
Nos. _____, filed with the letter of _____
- ☐ the drawings: _____, as originally filed
sheets/figs _____, filed with the demand
sheets/figs _____, filed with the letter of _____
- ☐ the sequence listing part of the description: _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). **

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/09964

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 4-41153 U(RIKEN CO.) 1992.04.08, Fig1-5 (No family)	4
Y	JP 2000-337522 A (MATSUO ENGINEERING CO.) 2000.12.05, Whole specification, Fig1-2 (No family)	9
Y	JP 37-10618 Y (HITACH CO.) 1962.05.18, Whole specification, Fig1-2 (NO family)	9
Y	JP 10-220588 A (NOK CO.) 1998.08.21, Whole specification, Fig1-6 (No family)	11, 12
A	US 4405137 A (Samuel B. Webb) 1983.09.20, Whole specification, Fig4-6 & CA 1203978 A	1-12